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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR

RIO GRANDE BASIN

April 1, 1937

The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by Bureau of Agricultural Engineering of the U. S. Department of Agriculture, in cooperation with State Departments, other Federal bureaus and local organizations. 1/

The status of precipitation from October 1 to April 1: Records of eleven precipitation stations, 6000 feet or more in elevation in Colorado and New Mexico, show precipitation somewhat more than normal. The precipitation was unusually heavy in the mountain areas of southern Colorado and northern New Mexico, but in the valley areas the precipitation was about normal.

The snow cover in the mountains is considerably greater than it was at this time last year. On April 1, 1936 the snow depth on Cumbres Pass was 70 inches; this year it is 115 inches. Conditions are favorable for a heavy early run-off because the snow extends to lower elevations than usual. In central New Mexico the snow is melting in the mountain areas.

Reservoir storage in the Upper Rio Grande Basin is below normal, but it is about the same as it was last year at this time. Although the precipitation in the valleys has not been heavy, the recent general storms have been sufficient to maintain a satisfactory moisture content in the soil.

1891

THE STATE OF

NEW YORK

That the undersigned, being a duly qualified person, do hereby certify that the following is a true and correct copy of the original records of the State of New York, as the same appear in the files of the Department of the Interior, at Albany, New York, on the 1st day of January, 1891.

Witness my hand and seal of office at Albany, New York, this 1st day of January, 1891.

Very truly yours,
[Signature]

Notary Public for the State of New York.

Summary of Federal and State Cooperative Snow Surveys
Bureau of Agricultural Engineering, U. S. Dept. Agr.; Forest Service; Colo. Agri. Expt. Station
Issued April 9, 1937. Colo. Expt. Station, Fort Collins, Colo.

Tributary Basins (Primary and Secondary and Snow Courses)	Location			Elev. (Feet)	April 1, Snow Course Measurements				
	State	Sec.	Twp.		Range	1937 (Inches)	Average Snow Depth 1936 (Inches)	Average Water Depth 1936 (Inches)	
RIO GRANDE									
Wolf Creek Pass	Colo.	4	37N	2E	10,000	115.2	79.7	42.3	26.8
Upper Rio Grande	"	13	40N	4W	9,350	35.9	18.2	8.9	4.4
Cumbres Pass	"	17	32N	5E	10,000	104.4	70.0	40.8	30.6
LaVeta Pass <u>2/</u>	"	23	28S	70W	10,500	31.5	8.5	9.3	2.0
Silver Lakes	"	15	36N	5E	9,600	27.1	--	7.0	--
River Springs	"	25	33N	6E	9,300	35.6	--	12.7	--
Red River	New Mex.	29	28N	15E	9,500	38.2	--	12.8	--
Taos Canon	"	10	25N	15E	9,000	27.4	--	8.6	--
Hematite Park <u>2/</u>	"	8	28N	15E	9,500	22.2	--	7.5	--
Holman Hill	"	10	22N	14E	9,400	4.9	--	1.0	--
Aspen Grove	"	12	18N	10E	9,100	6.5	--	2.2	--
Lee Ranch	"	3	18N	4E	9,050	27.5	--	8.1	--
Canjilon	"	4	26N	6E	9,500	62.8 <u>3/</u>	--	26.8 <u>3/</u>	--
Rio Nutrias	"	6	27N	5E	7,900	18.8	--	7.7	--
Panchulela Creek	"	34	19N	12E	8,500	2.3	--	1.0	--
CANADIAN									
Hematite Park	New Mex.	8	28N	15E	9,500	22.2	--	7.5	--
Ocate Mesa	"	25	24N	16E	9,200	10.6	--	4.0	--

New Mexico Courses established fall 1936, comparative records not available.

1/ The snow measurements are made principally by field personnel of the U. S. Forest Service and Colorado State Engineer. This work is otherwise conducted cooperatively with the State Engineers of Colorado and New Mexico, U. S. Weather Bureau, and Colorado Agricultural Experiment Station, and various municipalities, irrigation associations and others.

2/ In adjacent drainage.

3/ Snow tube too short to measure depth in maximum drifts.

(4500-37)

